

# Product Data Sheet

## ECOSHIELD®

<b>Description</b>	ECOSHIELD is a two-component glass flake reinforced vinyl ester coating system with extremely good adhesion, superior corrosion cavitation erosion protection. Suitable for steel, aluminium, and glass reinforced plastic.
<b>Typical use</b>	ECOSHIELD is typically used for rudders, thrusters, nozzles, thruster tunnels and general structural steel.
<b>Product information</b>	
<i>Colors</i>	All RAL colors available to order.
<i>Toxicity</i>	Nil (biocide free)
<i>Volume solids</i>	84 ± 2 %
<i>Flash point</i>	31 °C (88 °F)
<i>Density</i>	1.32 kg/l
<i>VOC</i>	240 g/l
<i>Shelf life</i>	12 months at 25 °C (77 °F) from time of production. Depending on storage conditions, mechanical stirring may be necessary before usage. If shelf life is exceeded, please contact SUBSEA INDUSTRIES for further advice.
<i>Storage temperature</i>	Maximum 25 °C (77 °F), store in dry and shaded conditions
<i>Temperature limits</i>	Minimum -60 °C (-76 °F) Maximum 170 °C (338 °F), in dry or gas conditions
<b>Surface preparation</b>	SA 2½ (ISO 8501-1) or SSPC-SP 10 (SSPC) near-white metal abrasive blast cleaning, with a minimum surface profile of 75 microns (3 mils). To secure lasting adhesion all surfaces shall be clean, dry, and free from any contamination.
<b>Application details</b>	
<i>Application method</i>	Airless spray Brush (only for touch up or stripe coat)
<i>Spray equipment</i>	Pump ratio 63:1 or higher
<i>Spray tip</i>	631 reversible spray tip
<i>Thinner</i>	Styrene (2.5 % mixing ratio)
<i>Catalyst</i>	Butanox LPT-IN (1-2 % mixing ratio, see application guide)
<i>Cleaning</i>	Acetone
<i>Total DFT</i>	1000-1500 microns (40-60 mils) Dry Film Thickness (2-3 layers)
<i>DFT/coat</i>	500 microns (20 mils) Dry Film Thickness
<i>WFT/coat</i>	625 microns (25 mils) Wet Film Thickness
<i>Pot life</i>	30 minutes at 20 °C (68 °F)
<i>Overcoat time</i>	Minimum: 3 hours at 20 °C (68 °F) Maximum: indefinite (if clean)

**Conditions** Relative humidity should be below 85 %.  
Surface temperature during application and curing should be at least 3 °C (38 °F) above dew point.  
Surface temperature during application and curing should be above 0 °C (32 °F) and below 60 °C (140 °F).

**Spreading rate**

*Theoretical coverage* 1.23 l/m<sup>2</sup> per 1000 microns DFT

*Practical coverage* 2 l/m<sup>2</sup> required per 1000 microns DFT (estimation, may vary depending on surface area, shape, and type of application).

**Health and safety**

Handle with care. Before and during use, observe all safety labels on packaging and cans, consult SUBSEA INDUSTRIES Material Safety Data Sheets and follow local safety regulations. Avoid inhalation, avoid contact with skin and eyes, and do not swallow.

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